

Laser module infrared 940nm, point

Reference: AM4333

EAN13: -

HS code: 90132000

Product attributes:

Performance: 30 mW, 50 mW, 100 mW, 200 mW, 300 mW



Product features:

Light color: Infrared

Wavelength: 940 nm

Voltage: 5 V DC

Cable length: 100 cm

Connector: 5.5x2.1 mm

Waterproof grade: IP20

Lifetime: 8,000 hours

Appearance: Point

Product description:

The infrared laser module with a wavelength of 940 nm is designed for applications requiring a point laser beam outside the visible spectrum. Thanks to its focusable design, it allows you to adjust the spot size according to the specific application, for example for positioning, sensing, optical fixtures or integration into measuring and industrial systems. The module is mounted in an aluminum housing and is designed for power supply with a direct voltage of 5 V DC.

Technical specifications

- Wavelength: 940 nm
- Beam type: spot
- Design: focusable laser module
- Case dimensions: 18 × 65 mm
- Housing material: aluminum
- Lens type: glass lens
- Supply voltage: 5V DC
- Operating mode: APC
- Connection: cable with DC connector 5.5 × 2.1 mm
- Cable length: 1 m
- Operating temperature: -10°C to +50°C
- Storage temperature: -40°C to +85°C
- Mean time to failure: more than 8,000 hours
- Available power variants of this series: 30 mW, 50 mW, 100 mW, 150 mW, 200 mW, 300 mW

Functions and features

- Infrared radiation 940 nm is suitable for applications where a visible light spot is not required
- Focusable optics allow you to adjust the size and sharpness of the spot to the working distance
- Compact cylindrical housing facilitates mechanical integration into equipment
- Aluminum body contributes to heat dissipation during operation
- 5 V DC power supply allows easy integration into common electronic systems
- APC/ACC control mode supports stable operation of the laser module

Ideal for

- Positioning and aiming systems
- Industrial and laboratory optical preparations
- Integration into measuring and testing equipment
- Infrared detection and sensing applications
- Development and experimental workplaces

Package contents

- 1x infrared laser module 940 nm

Why choose this product?

- Design suitable for technical and industrial use
-

- Precisely defined wavelength of 940 nm for infrared applications
- Possibility to focus the beam according to the requirements of a specific installation
- Compact dimensions and standard 5 V DC power supply
- Wide performance range within the same design

Installation and operating instructions

- For proper operation, it is necessary to ensure a stabilized 5 V DC power supply.
- Mount the module in an appropriate bracket or fixed mechanical position.
- When adjusting the focus, make changes carefully and with laser safety in mind.
- During long-term operation and with higher power variants, we recommend ensuring sufficient heat dissipation.
- To verify the function of the infrared beam, use a suitable detection device designed for the IR range.

Safety notice

- 940 nm laser radiation is outside the visible spectrum and the beam may not be detectable by the human eye
- Do not look into the module's output aperture or direct the beam at people or animals.
- Use appropriate protective equipment for working with laser radiation during installation and testing.
- The product is not intended as a toy and must only be operated by a qualified person.
- When using, the relevant safety regulations for laser devices must be observed.

